

GILA RIVER BASIN

09484560 CIENEGA CREEK NEAR PANTANO, AZ

LOCATION.--Lat 31°59'08", long 110°33'57", NW¹/₄ sec.1, T.17 S., R.17 E., Pima County, Hydrologic Unit 15050302, on downstream end of first pier from right bank of bridge on Interstate Highway 10, and 1.2 mi southeast of Pantano.

DRAINAGE AREA.--289 mi².

Annual peak discharges

| Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes | Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes |
|------------|----------|--|-----------------|------------|----------|--|-----------------|
| 1958 | 08-11-58 | 20,000 | ES,HP | 1975 | 09-02-75 | 1,550 | |
| 1968 | 07-26-68 | 1,870 | | 1976 | 08-10-76 | 4,650 | |
| 1969 | 07-22-69 | 990 | | 1977 | 09-11-77 | 3,800 | |
| 1970 | 07-20-70 | 1,770 | | 1978 | 10-06-77 | 900 | |
| 1971 | 08-03-71 | 2,240 | | 1979 | 08-12-79 | 860 | |
| 1972 | 09-13-72 | 1,930 | | 1980 | 09-07-80 | 630 | |
| 1973 | 02-22-73 | 878 | | 1981 | 07-06-81 | 8,310 | |
| 1974 | 07-19-74 | 2,570 | | | | | |

Magnitude and probability of instantaneous peak flow based on period of record 1958, 1968-81

| Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent | | | | | |
|--|----------|-----------|----------|-----------|------------|
| 2 50% | 5 20% | 10 10% | 25 4% | 50† 2% | 100† 1% |
| 1,880 | 4,020 | 6,150 | 9,930 | 13,700 | 18,500 |
| Weighted skew | (logs) = | 0.36 | | | |
| Mean | (logs) = | 2.30 | | | |
| Standard dev. | (logs) = | 0.37 | | | |

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

| Main channel slope (ft/mi) | Stream length (mi) | Mean basin elevation (ft) | Forested area (percent) | Soil index | Mean annual precipitation (in) | Rainfall intensity, 24-hour | |
|----------------------------|--------------------|---------------------------|-------------------------|------------|--------------------------------|-----------------------------|--------------|
| | | | | | | 2-year (in) | 50-year (in) |
| 59.8 | 31.2 | 4,890 | 13.0 | 2.5 | 16.6 | 1.9 | 4.1 |

